



NIST Update to the Visiting Committee on Advanced Technology

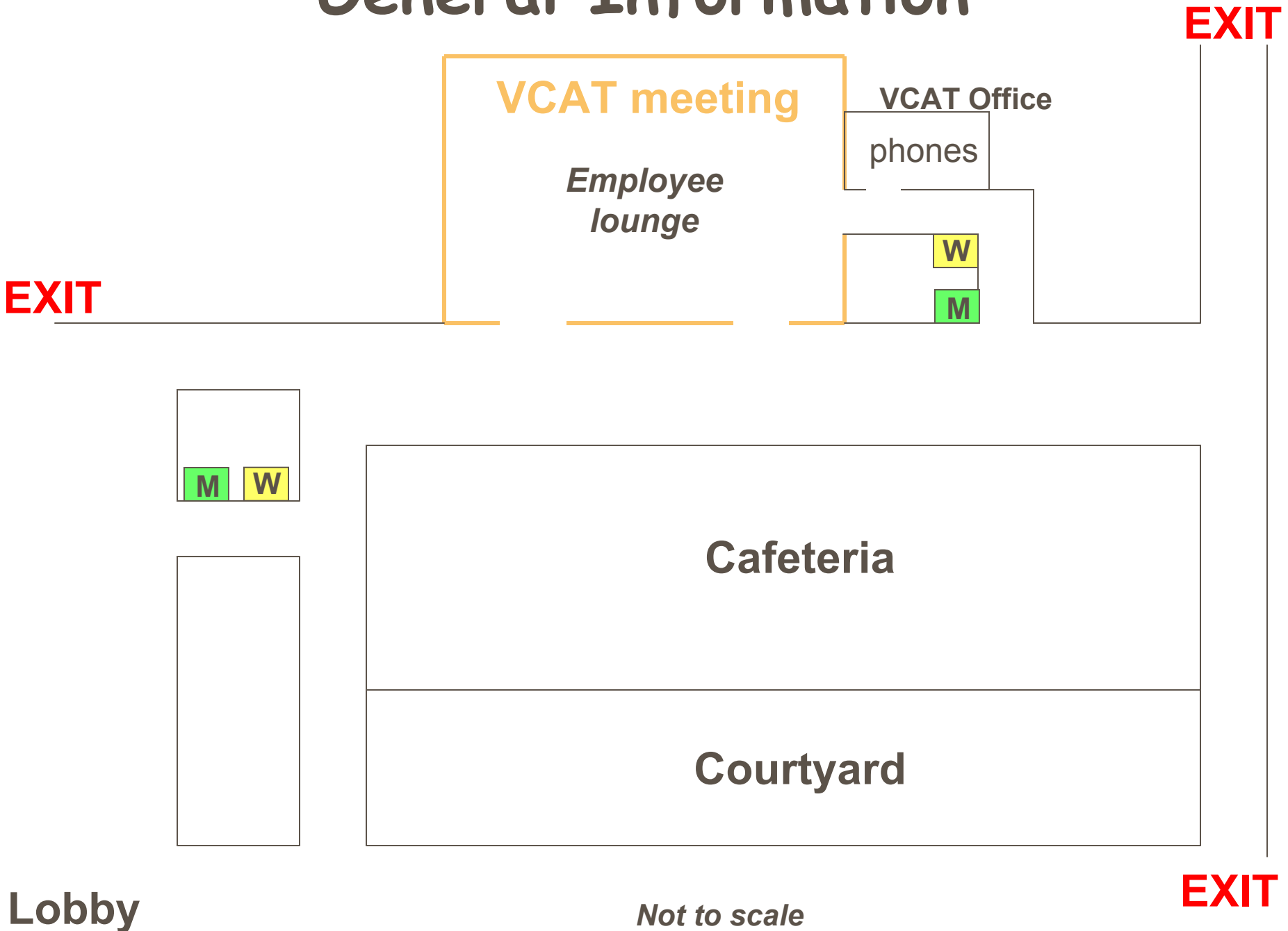
Arden L. Bement, Jr.

Director

National Institute of Standards and Technology

June 10, 2003

General Information



Agenda

- NIST Update
 - Safety Update
 - NIST Budget Review
 - Outreach to Congress
 - Strategic Partnerships
 - Recognition and Awards
- Programmatic Priorities: VCAT Review
 - Progress to date in reviewing NIST's strategic direction
 - Review of today's meeting and goals
 - Future directions

Safety Update

- New NIST Safety Web Site

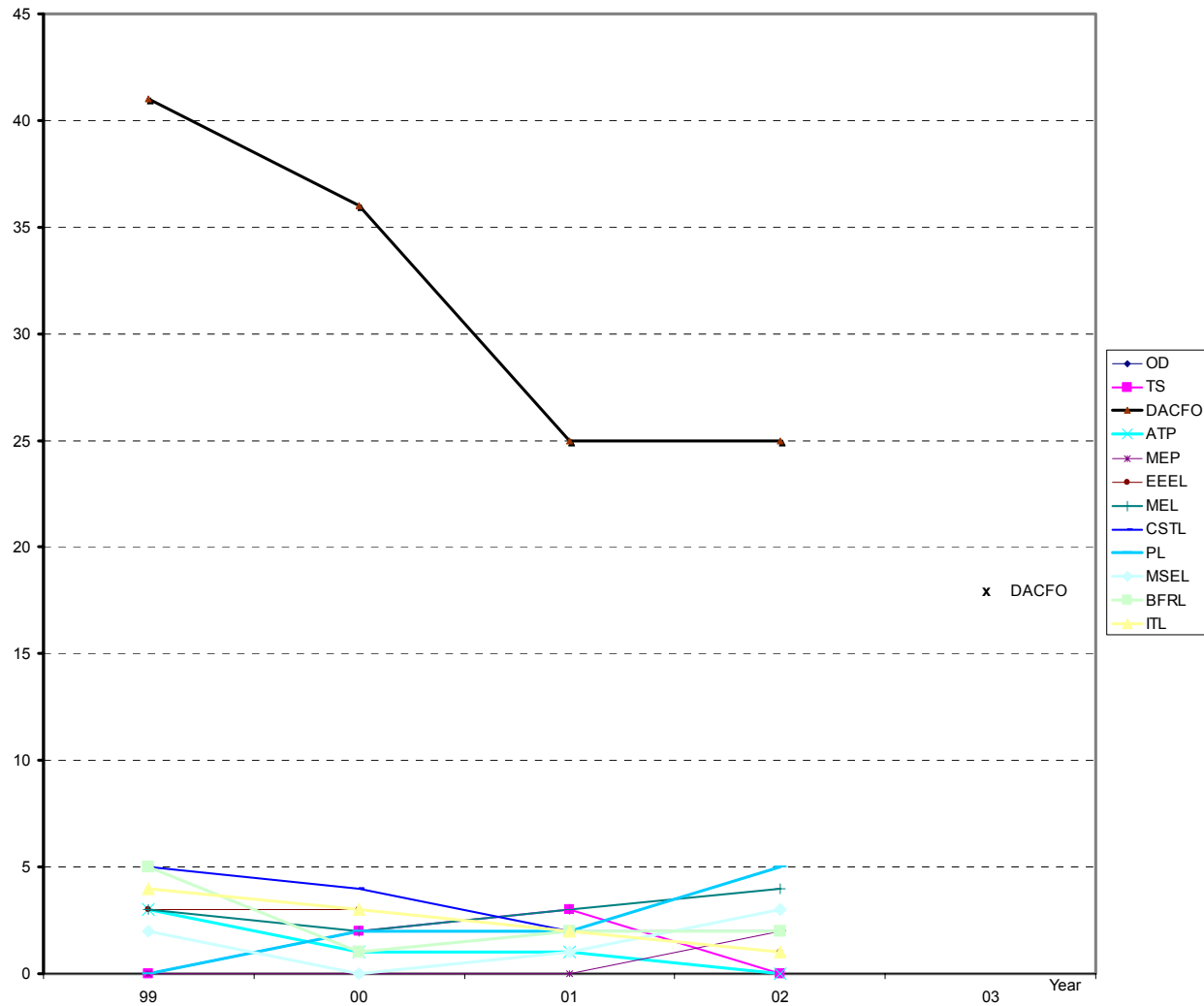
<http://safety.nist.gov/>

- New Mandatory Training for Supervisors:
 - A National Safety Council training course, "Incident Investigation and Root Cause Analysis" has been selected for the training of all supervisors.

Safety Update

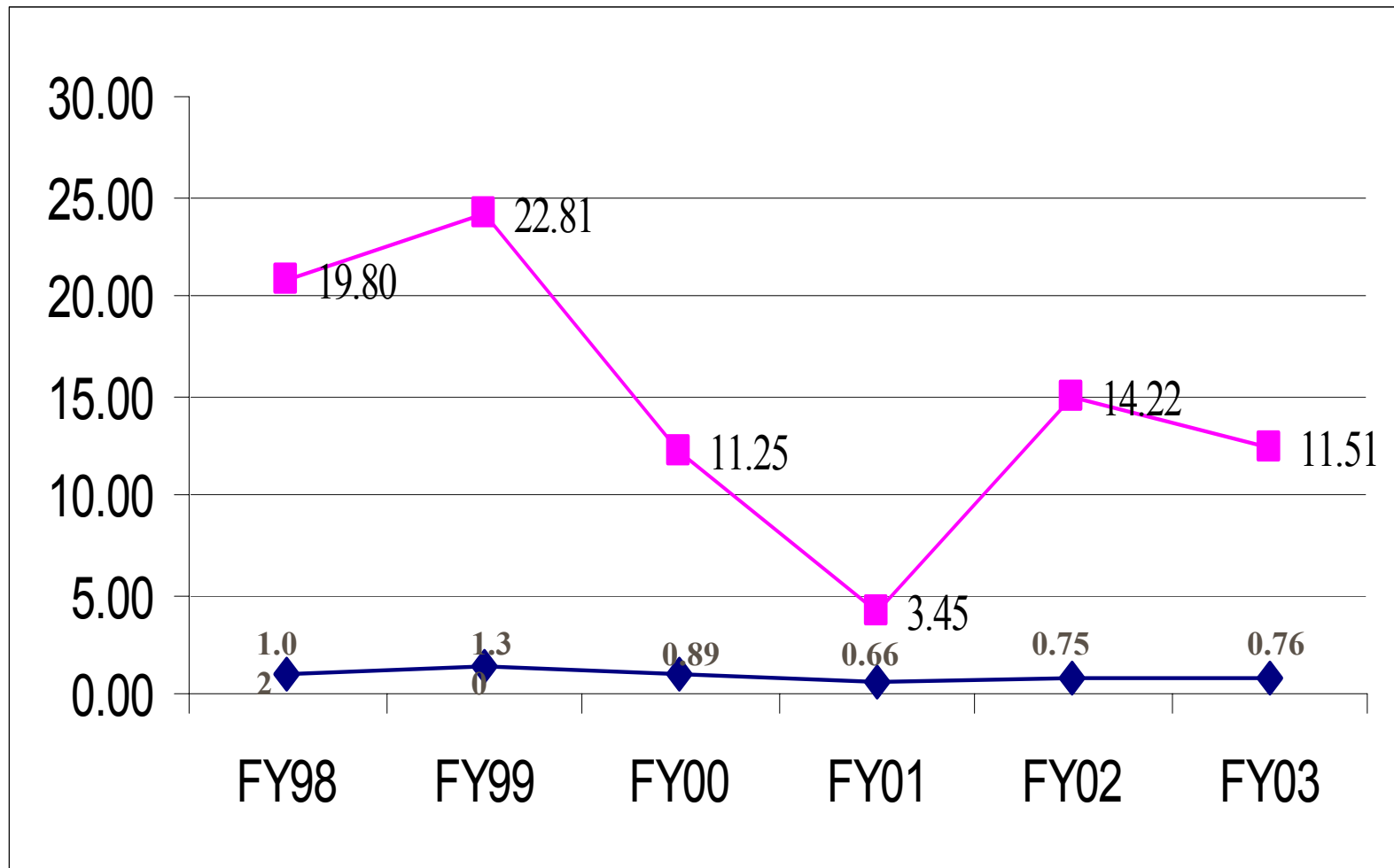
NIST Summary of Accident and Injuries FY 1999 through April, 2003

Total Reported Accidents and Injuries



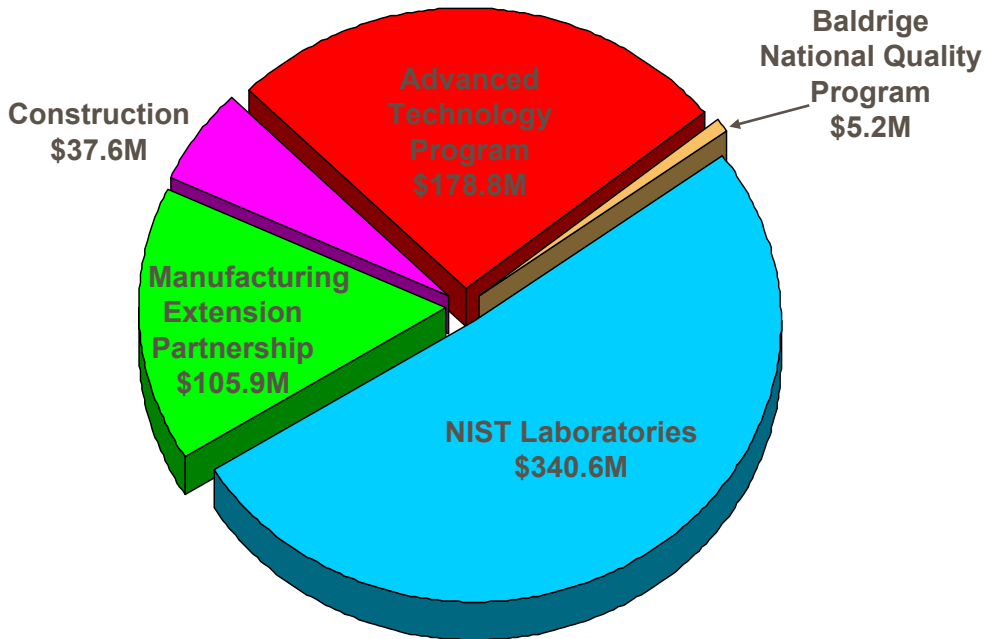
Safety Update

Lost Workday Incident and Severity Rate Per 100 Employees through May FY2003



NIST Budget Review

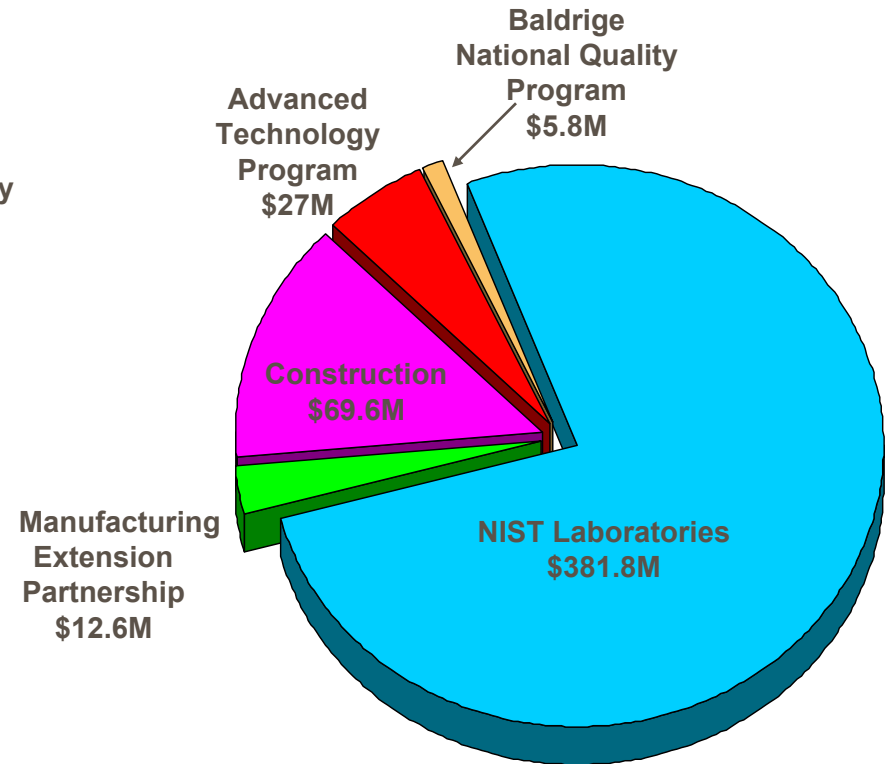
FY 2003 Actual Budget



Total: \$668.1M

2003 chart excludes earmarks:
Construction: \$28.1m
Laboratories: \$11.3m

FY 2004 NIST Budget Request



Total Request: \$496.8M

Outreach: Congress

■ **Congressional Testimony**

- Presentation before the Senate Committee on Commerce, Science and Transportation by the NIST Director, April 30, 2003
“The Fire Act: Needs of the Fire Services”
- Presentation before the House Committee on Science by the NIST Director, May 14, 2003
“Cybersecurity Research and Development”

■ **Congressman Christopher Van Hollen**

- Visit to NIST, April 14, 2003

■ **Congressman Marc Udall**

- Courtesy visit to meet Zelda Chapman Bailey, the new Director of the NIST Boulder Laboratories, April 14, 2003

Strategic Partnerships

NIST/NIH Interactions

- NIH-NIST Postdoc Program
- National Institute of Biomedical Imaging and Bioengineering
- NIH Research Festival
- Biomedical Information Science and Technology Initiative Workshop

Strategic Partnerships

- **Memorandum of Understanding**
Department of Homeland Security (DHS)
May 22, 2003
- **New Joint Postdoctoral Fellow Program**
CIA's Director of Central Intelligence (DCI)
- **University of Maryland in College Park**
MOU under development

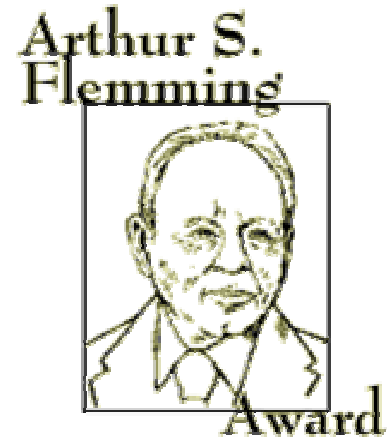
NIST Recognition

A Sample of Letters of Advocacy

- Air and Waste Management Association
- AMD
- American Chemical Society
- Biotechnology Industry Organization
- Construction Industry Round Table
- DOW Chemical Company
- Dupont Research & Development
- Industrial Research Institute
- National Association of Manufacturers (NAM)
- National Coalition for Advanced Manufacturing
- National Fire Protection Association
- National Governors Association
- National Tooling & Machining Association
- Precision Machined Products Association
- Striatum Incorporated
- Wiring Harness Manufacturers Association

Arthur S. Flemming 2003 Awards

Honors employees with 3 to 15 years of federal experience for extraordinary contributions to federal science.



Dr. Marc F. Desrosiers
Ionizing Radiation Division



Dr. Muhammad Arif
Ionizing Radiation Division



Dr. Mark David Stiles
Electron and Optical Physics
Division

2003 Washington Academy of Sciences Award



Dr. Charles W. Clark

Electron and Optical Physics Division
Physics Laboratory, NIST

“...for outstanding contributions to atomic, molecular and optical physics and exceptional research in developing the theoretical basis needed to understand the behavior of a new state of matter, the Bose-Einstein condensate.”

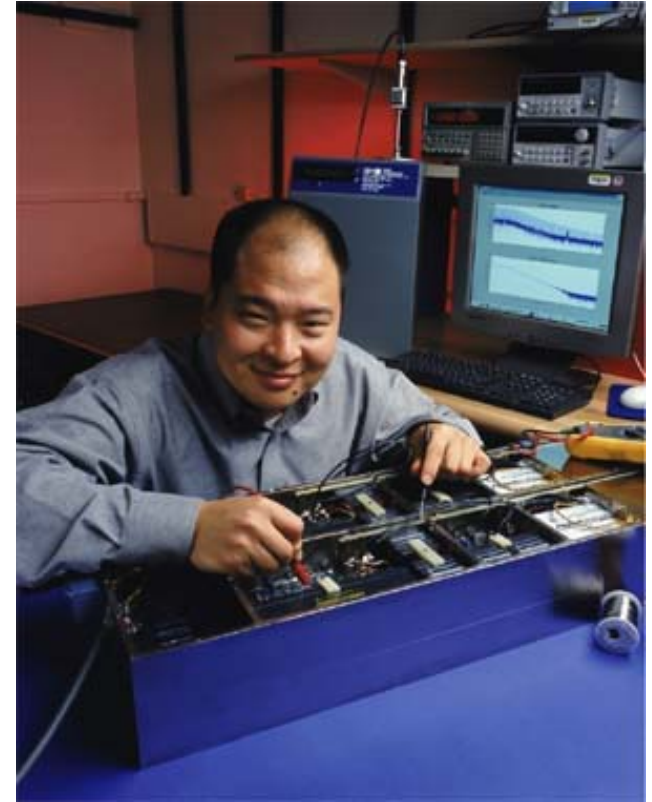


Popular Science Magazine

Brilliant 10 Award

Dr. Sae Woo Nam,
Electromagnetic Technology Division
EEEL, Boulder

The award recognizes 10 ground-breaking, risk-taking, committed researchers doing work that is ushering in technological advances that will change our lives.



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Programmatic Reviews: 2002

■ **June 2002**

- Reviewed draft NIST 2010 Strategic Plan
- Reviewed our programmatic and organizational strategic focus areas
- Conducted a working session focusing on the core question: Is the SFA case for NIST compelling?

■ **September 2002 (Boulder)**

- Theme: Strategic partnership issues and options
- Context: JILA, a successful long-term partnership between NIST and U.CO

■ **December 2002**

- Reviewed implementation plans for two strategic focus areas: Homeland Security and nanotechnology

Programmatic Reviews: 2003

■ **March 2003**

- Reviewed key elements of current work portfolio in Homeland Security
 - OLES
 - Detection of radiological and nuclear threat material
 - WTC investigation
 - Characterization of trace explosive detection equipment
- Reviewed and discussed Congressional and Administrative science and technology budget priorities

■ **June 2003**

- Continue review of NIST's current work portfolio and strategic direction in two new areas:
 - Biometrology
 - Information / knowledge management

Today's Agenda

- **NIST's Core Role**

- Reaffirming NIST's Role as the Leader of the Nation's Measurement System

- **Strategic Partnerships**

- Working With NIH

- **Strategic Research**

- **Biometrology**

- NIST Role in Biometrology
- Laboratory Tours: Tissue engineering; Single Molecule Measurement and Manipulation (SM³)

- **Information and Knowledge Management**

- Lab tours: Trustworthy computing; manufacturing interoperability; intelligent data infrastructure

- **Central goal:** *Obtain your feedback on our understanding of customer needs and your input on the relevance and direction of our work in these areas*

Future Direction

- Priorities set at SMB Spring Retreat, April 3-4
 - Strategic focus
 - NIST's role in the national measurement system
 - The articulation and implementation of our long-term strategic plan
 - Operational focus
 - Aligning culture; continuous improvement
 - Improved operating effectiveness of the SMB; better linkage of performance to goals
 - Leadership and management development